Puget Sound Salmon Recovery Region



Puget Sound Basin lies between the Cascade and Olympic mountains in Northwest Washington. It is the second largest estuary in the United States and covers more than 16,000 square miles. Twenty percent of the area is land, as diverse as farms, forests, parks, small towns, and busy cities. The remainder is freshwater, estuarine, and marine waters; over 20 major river systems and their tributary creeks drain mountain elevations of 7000 feet or more and drop to sea level within 50 to 70 miles.

Puget Sound is home to two-thirds of the state's population. Draft Puget Sound Chinook and bull trout recovery plans were completed in June 2005 and posted in the Federal Register in December 2005. The draft Hood Canal summer chum recovery plan was submitted in November 2005 and placed in the Federal Register in August 2006.

Key Facts

LISTED FISH

Chinook (threatened)
Hood Canal summer chum
(threatened)
Bull trout (threatened)

MAJOR FACTORS LIMITING RECOVERY

- ▶ Degraded floodplain and channel structure
- ▶ Degraded nearshore/marine and estuarine conditions and habitat loss
- ▶ Degraded riparian area and loss of in-river large woody debris
- Excessive sediment
- **▶** Degraded water quality and temperature
- ▶ Impaired instream flows
- ▶ Barriers to fish passage

RECOVERY PLANNING STATUS

Draft recovery plans completed for Chinook in June 2005 and posted in Federal Register December 2005. Final adoption by NMFS expected January 2007. Draft summer chum plan submitted in November 2005 and placed in Federal Register August 2006.

REGIONAL RECOVERY ORGANIZATION

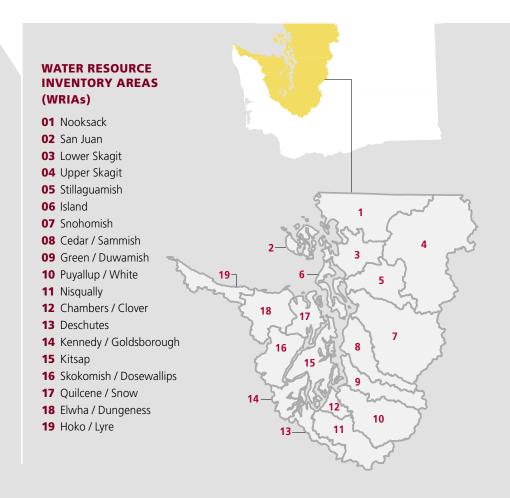
Puget Sound Shared Strategy (for Chinook); Hood Canal Coordinating Council (for summer chum).

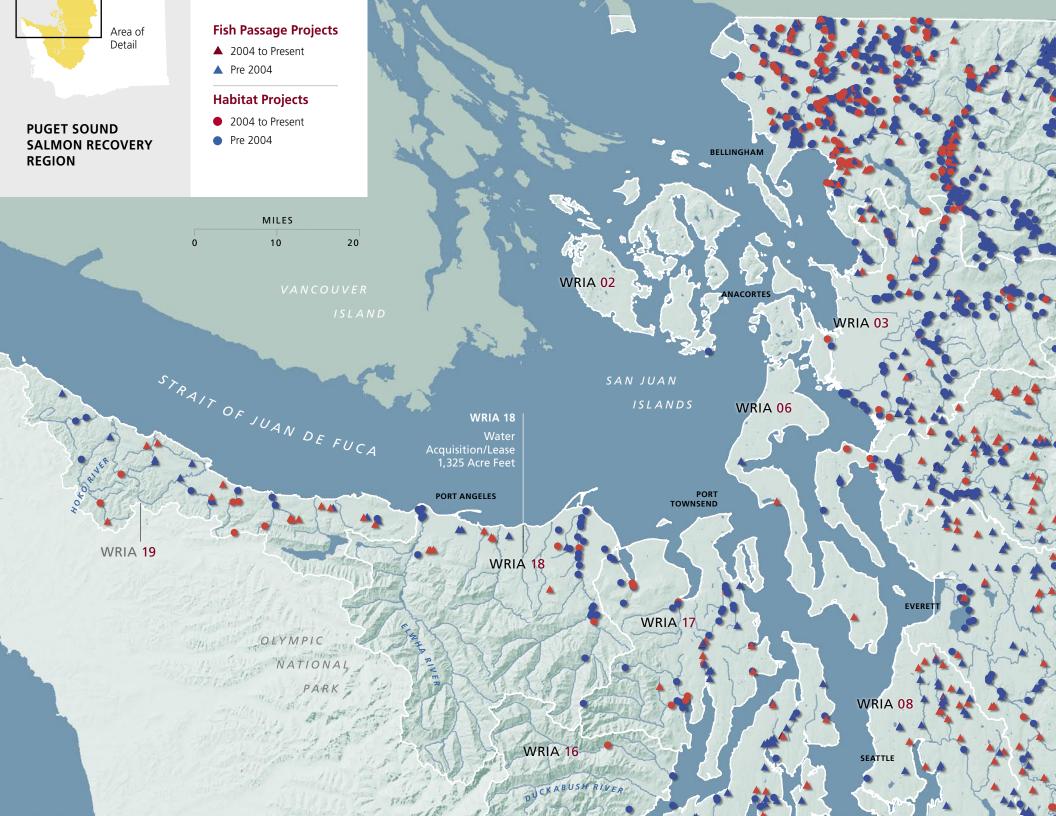
FEDERALLY RECOGNIZED TRIBES

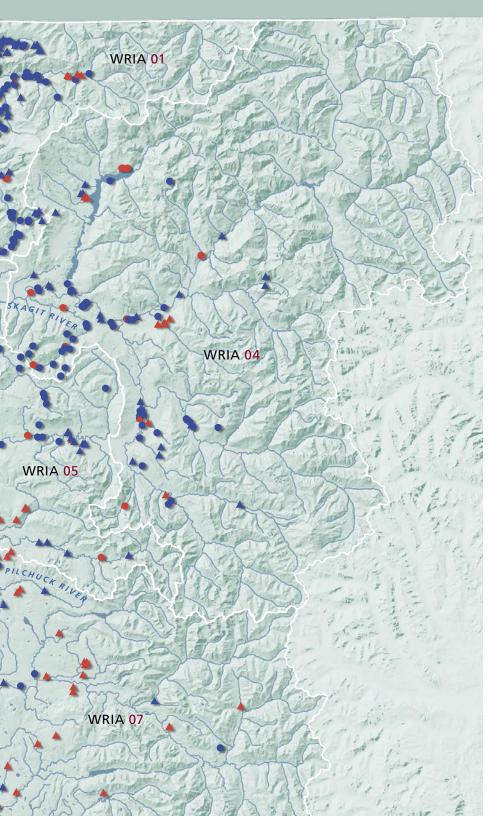
Lummi Nation, Nooksack, Stillaguamish, Jamestown S'Klallam, Muckleshoot, Nisqually, Port Gamble S'Klallam, Lower Elwha S'Klallam, Puyallup, Samish, Sauk-Suiattle, Skokomish, Squaxin Island, Stillaquamish, Suquamish, Swinomish, Tulalip, Upper Skagit, Snoqualmie.

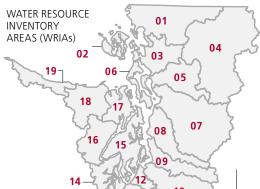
COUNTIES

All or parts of Whatcom, Skagit, Island, San Juan, Snohomish, King, Pierce, Thurston, Mason, Kitsap, Jefferson, and Clallam.



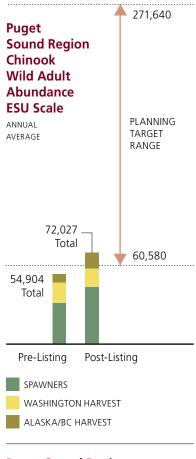






Watershed Cleanup Plans

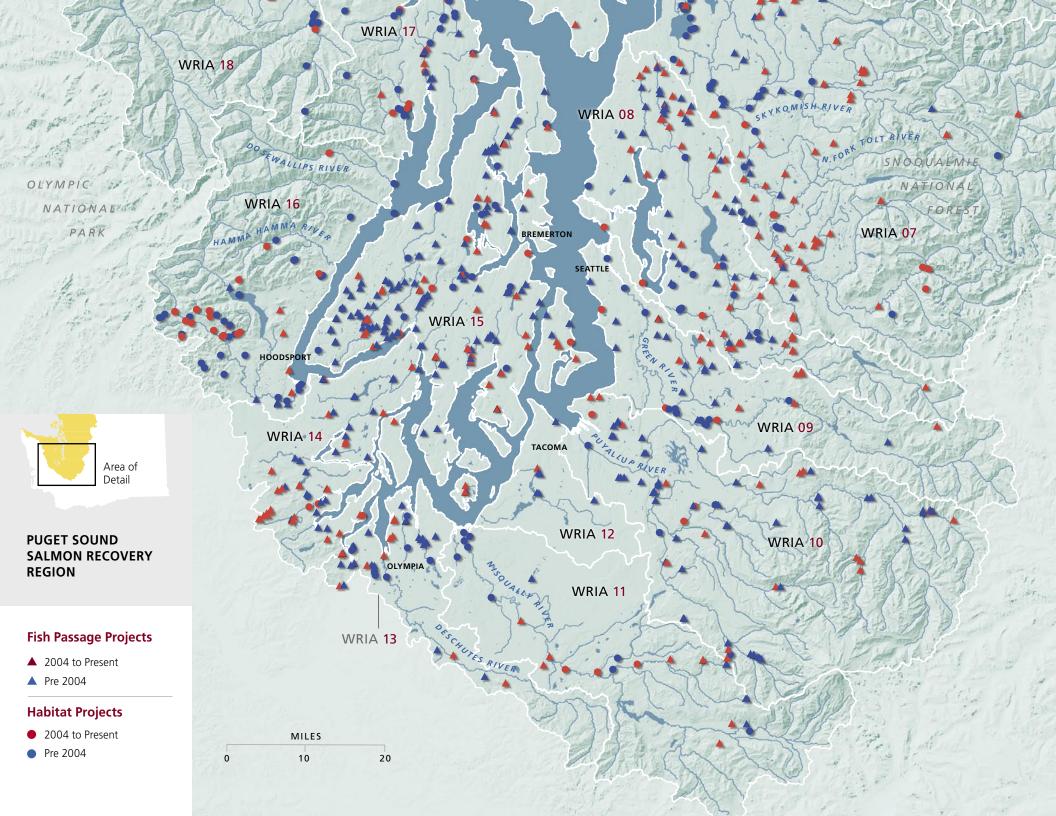


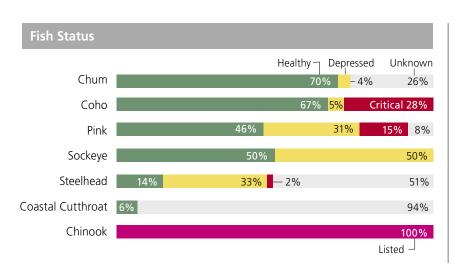


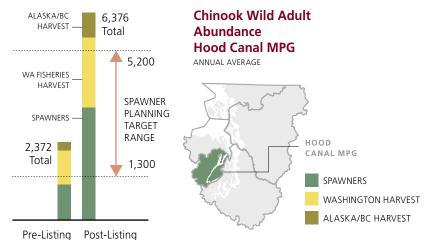
Puget Sound Region Wild Chinook Juvenile Production Since Listing

	50%
Increase 15% —	0%
·	

100%

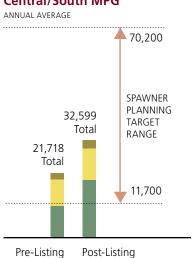






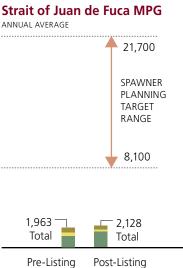


Chinook Wild Adult Abundance Central/South MPG ANNUAL AVERAGE





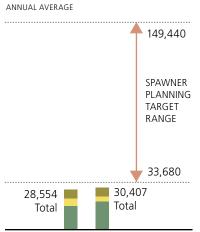
Chinook Wild Adult Abundance Strait of Juan de Fuca MPC



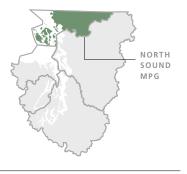


Chinook Wild Adult Abundance Whidbey Basin MPG

Pre-Listing

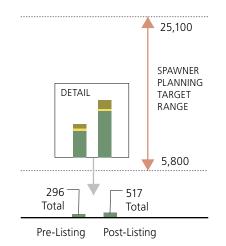


Post-Listing



Chinook Wild Adult Abundance North Sound MPG

ANNUAL AVERAGE





REGION

SNOHOMISH BASIN

07

WATER RESOURCE INVENTORY AREA

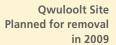
Watershed Watch Snohomish Basin WRIA 07



The Snohomish River Basin lies in King and Snohomish Counties in eastcentral Puget Sound. It covers 1,856 square miles (1,187,840 acres) and is the second largest watershed in Puget Sound. The Snoqualmie and Skykomish rivers are the major surface waters in

the watershed, and they converge to become the Snohomish River approximately 20 miles upstream of Puget Sound. Other major tributaries include the Tolt, Sultan, and Pilchuck.

The South Fork Tolt and Spada Lake Reservoirs supply water for more than a million people in Seattle, Everett, and nearby communities. About 75% of the watershed remains covered by natural vegetation. Municipal and industrial areas are concentrated along the western part of the major rivers and in and around Everett. Population growth is rapid, with a 59% growth rate projected for 2000-2030.





Raging River Restoration/Acquisition

Wetland and Natural Resources Survey Crew

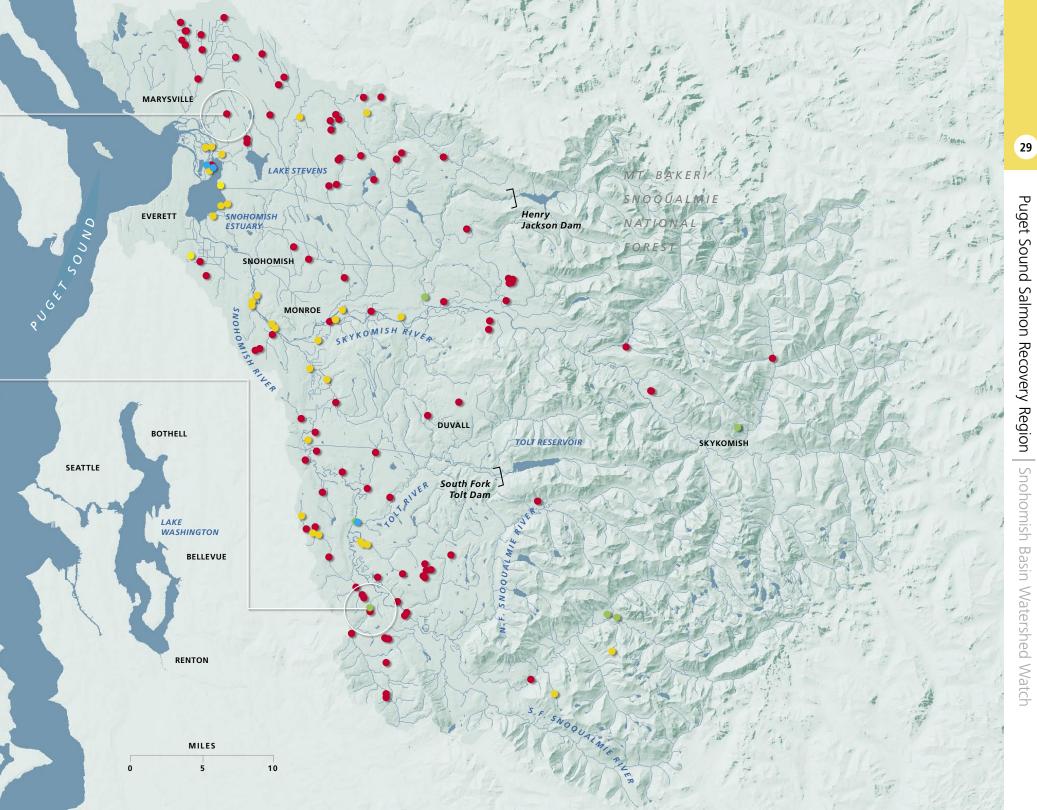


TULALIP TRIBI

RESTORATION PROJECTS

- Fish Passage
- Riparian
- Instream Habitat
 - Instream Flows
- Estuary
- Upland
- Miscellaneous







PUGET SOUND SALMON RECOVERY REGION

SNOHOMISH BASIN

07

WATER RESOURCE INVENTORY AREA

SNOHOMISH BASIN WRIA 07 RECOVERY QUESTIONS

Are hydroelectric facilities operating in a "fish friendly" manner?

Indicator	Measured Results
Upstream passage goals at FERC licensed facilities	Black Creek, May Creek, Smith Creek, Twin Falls, Weeks Falls, Woods Creek: Unknown Jackson Project: None ; South Fork Tolt: None Required ; Overall: Unknown
Actual upstream passage achieved (any or all years for which data are available 1999-2006)	Black Creek, May Creek, Smith Creek, Twin Falls, Weeks Falls, Woods Creek: Unknown Jackson Project: None ; South Fork Tolt: None Required ; Overall: Unknown
Downstream passage goals at FERC licensed facilities	Black Creek, May Creek, Smith Creek, Twin Falls, Weeks Falls, Woods Creek: Unknown Jackson Project: None ; South Fork Tolt: None Required ; Overall: Unknown
Actual downstream passage achieved (any or all years for which data are available 1999-2006)	Black Creek, May Creek, Smith Creek, Twin Falls, Weeks Falls, Woods Creek: Unknown Jackson Project: None ; South Fork Tolt: None Required ; Overall: Unknown

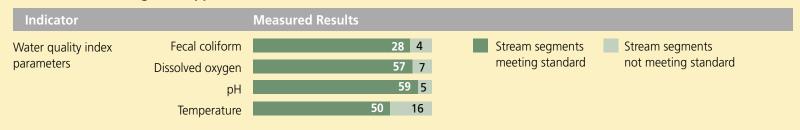
Are streams accessible to wild salmon?

Indicator	Measured Result	s
Inventory of major blockages	Complete barriers 1	Partial barriers 24
Miles of anadromous waters inaccessible	Not available	

Are listed populations abundant and productive?

Indicator	Measured Results	
Run size achieved, 5 year average pre- and post listing. Wild component of Whidbey Basin Major Population Group.	Pre-listing Post-listing	28,554 30,407
Juvenile production (baseline mean)	1,232,397	

Is water clean enough to support wild salmon?



Do rivers and streams have flows that support wild salmon?

Indicator	IV	leasured Results			
Instream flow set	Ri	ule filed 1979, 50% exce	edence allowance		
Percent of time flow me	et during fish critical perio	od August 1 to Septem	ber 30	Pre-listing	Post-listing
80 40 0 93 99 05	70 50 30 10 93 99 05	100 50 0 93 99 05	100 50 93 99 05	90 60 30 93 99 05	100 50 93 99 05
SKYKOMISH	NF SNOQUALMIE	SNOQUALMIE BELOW FALLS	TOLT	PILCHUCK	SNOHOMISH

Does harvest management protect wild salmon?

Indicator	Measured Results	
Wild spawners 5 year average pre- and post listing (Whidbey Basin MPG scale)	Pre-listing 16,665 RECOVERY PLAN Post listing 20,385 SPAWNER PLANNING TARGET RANGE	
	33,680 (high productivity)	149,440 (low productivity)
Percent of wild salmon run that is harvested 5 year average pre- and post listing (Whidbey Basin MPG scale)	Pre-listing 42% of wild run Post listing 33% of wild run	

Do hatchery practices meet the needs of wild salmon?

Indicator	Measured Result	Measured Results		
Does a scientific evaluation of practices exist?	Yes, Hatchery Scien	Yes, Hatchery Scientific Review Group		
If so, what actions have been accomplished?	29 Implemented	18 Ongoing	11 Not Begun	